UNCERTAINTY RELATIONS FOR MOMENTUM AND FOR VELOCITY

$$\Delta p = m \, \Delta v$$

$$\left. \begin{aligned} \Delta p &\sim \hbar / \Delta x \\[6pt] \Delta v &\sim \hbar / m \cdot \Delta x. \end{aligned} \right\}$$

THE MOVING CUT
AND POSITION MEASUREMENT

P_0

Particle

CUT

C

D

F

Diaphragm

Reference frame

P_0

D

C'

F'

F